



Roy F. Weston, Inc.
 Suite 500
 750 East Bunker Court
 Vernon Hills, IL 60061-1450
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**We're moving 6-23-00 to:
 Roy F. Weston, Inc.
 750 E. Bunker Ct. Ste 500
 Vernon Hills, IL 60061-1450**

12 July 2000

Mr. James Innes
 Michigan Department of Environmental Quality
 Shiawassee District Headquarters
 10650 Bennett Drive
 Morrice, Michigan 48857-9792

Work Order No.: 01138.079.003.0025

Re: Groundwater Testing of Monitoring Well MW-11S
 Linden Road Landfill Site

Dear Mr. Innes:

As indicated in a Roy F. Weston, Inc. (WESTON®) letter to the Michigan Department of Environmental Quality (MDEQ) dated 21 January 2000, an additional groundwater sample was collected and analyzed from Monitoring Well MW-11S at the above-referenced site. The following letter report describes the sampling and presents the sample analytical results.

On 16 June 2000, a WESTON geologist collected a single groundwater sample from Monitoring Well MW-11S. The sample was submitted for volatile organic analysis (VOC) by Fire & Environmental Consulting Laboratories, Inc. (FECL) of East Lansing, Michigan. A trip blank was also analyzed for quality assurance/quality control (QA/QC) purposes. All sampling and shipping procedures were consistent with those performed previously.

Analytical results indicated that no VOCs were detected in the sample. Laboratory analytical data including the chain-of-custody documentation are included as Attachment A.

Per the Operation and Maintenance Plan for the site, the next groundwater sampling and methane monitoring activities will be conducted in October 2000.

If you have any questions or require additional information, please call me at (847) 918-4018.

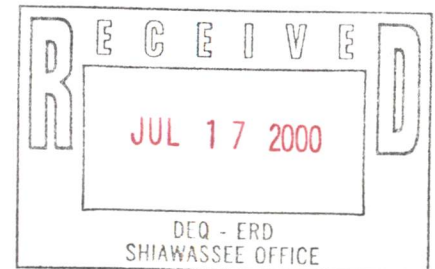
Very truly yours,

ROY F. WESTON, INC.

S. Babusukumar, P.G.
 Project Manager

cc: R. Metcalf, GM

Attachment





Attachment A

Laboratory Analytical Results



Analytical Laboratory Report

Report ID: S02301-01
Generated on 06/29/2000

Report to

Attention: Mr. Babusukumar
Roy F. Weston, Inc.
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Phone: 847-918-4000 FAX: 847-918-4055

Report produced by

Fire & Environmental Consulting Laboratories
1451 East Lansing Drive, Suite 222
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample IDs: S02301.01-S02301.02
Project: 01138-079-003 GM/Weston, Inc.
Submitted Date/Time: 06/16/2000 16:10
Sampled by: D. Dryburgh
P.O. #:

Report Notes

Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
Results relate only to items tested.
Report shall not be reproduced except in full, without the written approval of FECL.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Lab Sample ID: S02301.01
 Sample Tag: MW-11s
 Collected Date/Time: 06/16/2000 15:00
 Matrix: Groundwater
 COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40 ml Glass	HCL	Yes	4	4003

Analysis	Results	Units	MDL	Method	Date Run	Analyst	CAS #	Flags
Organics								
Volatile Organics								
Benzene	Not detected	mg/L	0.001	8260	06/28/00	VFM	71-43-2	
Bromodichloromethane	Not detected	mg/L	0.001	8260	06/28/00	VFM	75-27-4	
Bromoform	Not detected	mg/L	0.001	8260	06/28/00	VFM	75-25-2	
Bromomethane	Not detected	mg/L	0.001	8260	06/28/00	VFM	74-83-9	
n-Butylbenzene	Not detected	mg/L	0.001	8260	06/28/00	VFM	104-51-8	
sec-Butylbenzene	Not detected	mg/L	0.001	8260	06/28/00	VFM	135-98-8	
tert-Butylbenzene	Not detected	mg/L	0.001	8260	06/28/00	VFM	98-06-6	
Carbon tetrachloride	Not detected	mg/L	0.001	8260	06/28/00	VFM	56-23-5	
Chlorobenzene	Not detected	mg/L	0.001	8260	06/28/00	VFM	108-90-7	
Chloroethane	Not detected	mg/L	0.001	8260	06/28/00	VFM	75-00-3	
Chloroform	Not detected	mg/L	0.001	8260	06/28/00	VFM	67-66-3	
Chloromethane	Not detected	mg/L	0.001	8260	06/28/00	VFM	74-87-3	
Dibromochloromethane	Not detected	mg/L	0.001	8260	06/28/00	VFM	124-48-1	
1,2-Dichlorobenzene	Not detected	mg/L	0.001	8260	06/28/00	VFM	95-50-1	
1,3-Dichlorobenzene	Not detected	mg/L	0.001	8260	06/28/00	VFM	541-73-1	
1,4-Dichlorobenzene	Not detected	mg/L	0.001	8260	06/28/00	VFM	106-46-7	
1,1-Dichloroethane	Not detected	mg/L	0.001	8260	06/28/00	VFM	75-34-3	
1,2-Dichloroethane	Not detected	mg/L	0.001	8260	06/28/00	VFM	107-06-2	
1,1-Dichloroethene	Not detected	mg/L	0.001	8260	06/28/00	VFM	75-35-4	
cis-1,2-Dichloroethene	Not detected	mg/L	0.001	8260	06/28/00	VFM	156-59-2	
trans-1,2-Dichloroethene	Not detected	mg/L	0.001	8260	06/28/00	VFM	156-60-5	
1,2-Dichloropropane	Not detected	mg/L	0.001	8260	06/28/00	VFM	78-87-5	
cis-1,3-Dichloropropene	Not detected	mg/L	0.001	8260	06/28/00	VFM	10061-01-5	
trans-1,3-Dichloropropene	Not detected	mg/L	0.001	8260	06/28/00	VFM	10061-02-6	
Ethylbenzene	Not detected	mg/L	0.001	8260	06/28/00	VFM	100-41-4	
Isopropylbenzene	Not detected	mg/L	0.001	8260	06/28/00	VFM	98-82-8	
p-Isopropyltoluene	Not detected	mg/L	0.001	8260	06/28/00	VFM	99-87-6	
Methylene chloride	Not detected	mg/L	0.005	8260	06/28/00	VFM	75-09-2	
Naphthalene	Not detected	mg/L	0.001	8260	06/28/00	VFM	91-20-3	
n-Propylbenzene	Not detected	mg/L	0.001	8260	06/28/00	VFM	103-65-1	
Styrene	Not detected	mg/L	0.001	8260	06/28/00	VFM	100-42-5	
1,1,2,2-Tetrachloroethane	Not detected	mg/L	0.001	8260	06/28/00	VFM	79-34-5	
Tetrachloroethene	Not detected	mg/L	0.001	8260	06/28/00	VFM	127-18-4	
Toluene	Not detected	mg/L	0.001	8260	06/28/00	VFM	108-88-3	
1,1,1-Trichloroethane	Not detected	mg/L	0.001	8260	06/28/00	VFM	71-55-6	
1,1,2-Trichloroethane	Not detected	mg/L	0.001	8260	06/28/00	VFM	79-00-5	
Trichloroethene	Not detected	mg/L	0.001	8260	06/28/00	VFM	79-01-6	
1,2,4-Trimethylbenzene	Not detected	mg/L	0.001	8260	06/28/00	VFM	95-63-6	
1,3,5-Trimethylbenzene	Not detected	mg/L	0.001	8260	06/28/00	VFM	108-67-8	
Vinyl chloride	Not detected	mg/L	0.001	8260	06/28/00	VFM	75-01-4	
o-Xylene	Not detected	mg/L	0.001	8260	06/28/00	VFM	95-47-6	
p,m-Xylene	Not detected	mg/L	0.001	8260	06/28/00	VFM	106-42-3/108-38-3	



Analytical Laboratory Report

Lab Sample ID: S02301.01 (continued)

Sample Tag: MW-11s

Analysis	Results	Units	MDL	Method	Date Run	Analyst	CAS #	Flags
Organics (continued)								
Volatile Organics (continued)								
Acetone	Not detected	mg/L	0.05	8260	06/28/00	VFM	67-64-1	
2-Butanone (MEK)	Not detected	mg/L	0.05	8260	06/28/00	VFM	78-93-3	
Carbon disulfide	Not detected	mg/L	0.05	8260	06/28/00	VFM	75-15-0	
2-Hexanone	Not detected	mg/L	0.05	8260	06/28/00	VFM	591-78-6	
4-Methyl-2-pentanone (MIBK)	Not detected	mg/L	0.05	8260	06/28/00	VFM	108-10-1	



Analytical Laboratory Report

Lab Sample ID: S02301.02
 Sample Tag: TB
 Collected Date/Time: 06/16/2000 :
 Matrix: Liquid
 COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40 ml Glass	HCL	Yes	4	4003

Analysis	Results	Units	MDL	Method	Date Run	Analyst	CAS #	Flags
Organics								
Volatile Organics								
Benzene	Not detected	mg/L	0.001	8260	06/28/00	VFM	71-43-2	
Bromodichloromethane	Not detected	mg/L	0.001	8260	06/28/00	VFM	75-27-4	
Bromoform	Not detected	mg/L	0.001	8260	06/28/00	VFM	75-25-2	
Bromomethane	Not detected	mg/L	0.001	8260	06/28/00	VFM	74-83-9	
n-Butylbenzene	Not detected	mg/L	0.001	8260	06/28/00	VFM	104-51-8	
sec-Butylbenzene	Not detected	mg/L	0.001	8260	06/28/00	VFM	135-98-8	
tert-Butylbenzene	Not detected	mg/L	0.001	8260	06/28/00	VFM	98-06-6	
Carbon tetrachloride	Not detected	mg/L	0.001	8260	06/28/00	VFM	56-23-5	
Chlorobenzene	Not detected	mg/L	0.001	8260	06/28/00	VFM	108-90-7	
Chloroethane	Not detected	mg/L	0.001	8260	06/28/00	VFM	75-00-3	
Chloroform	Not detected	mg/L	0.001	8260	06/28/00	VFM	67-66-3	
Chloromethane	Not detected	mg/L	0.001	8260	06/28/00	VFM	74-87-3	
Dibromochloromethane	Not detected	mg/L	0.001	8260	06/28/00	VFM	124-48-1	
1,2-Dichlorobenzene	Not detected	mg/L	0.001	8260	06/28/00	VFM	95-50-1	
1,3-Dichlorobenzene	Not detected	mg/L	0.001	8260	06/28/00	VFM	541-73-1	
1,4-Dichlorobenzene	Not detected	mg/L	0.001	8260	06/28/00	VFM	106-46-7	
1,1-Dichloroethane	Not detected	mg/L	0.001	8260	06/28/00	VFM	75-34-3	
1,2-Dichloroethane	Not detected	mg/L	0.001	8260	06/28/00	VFM	107-06-2	
1,1-Dichloroethene	Not detected	mg/L	0.001	8260	06/28/00	VFM	75-35-4	
cis-1,2-Dichloroethene	Not detected	mg/L	0.001	8260	06/28/00	VFM	156-59-2	
trans-1,2-Dichloroethene	Not detected	mg/L	0.001	8260	06/28/00	VFM	156-60-5	
1,2-Dichloropropane	Not detected	mg/L	0.001	8260	06/28/00	VFM	78-87-5	
cis-1,3-Dichloropropene	Not detected	mg/L	0.001	8260	06/28/00	VFM	10061-01-5	
trans-1,3-Dichloropropene	Not detected	mg/L	0.001	8260	06/28/00	VFM	10061-02-6	
Ethylbenzene	Not detected	mg/L	0.001	8260	06/28/00	VFM	100-41-4	
Isopropylbenzene	Not detected	mg/L	0.001	8260	06/28/00	VFM	98-82-8	
p-Isopropyltoluene	Not detected	mg/L	0.001	8260	06/28/00	VFM	99-87-6	
Methylene chloride	Not detected	mg/L	0.005	8260	06/28/00	VFM	75-09-2	
Naphthalene	Not detected	mg/L	0.001	8260	06/28/00	VFM	91-20-3	
n-Propylbenzene	Not detected	mg/L	0.001	8260	06/28/00	VFM	103-65-1	
Styrene	Not detected	mg/L	0.001	8260	06/28/00	VFM	100-42-5	
1,1,2,2-Tetrachloroethane	Not detected	mg/L	0.001	8260	06/28/00	VFM	79-34-5	
Tetrachloroethene	Not detected	mg/L	0.001	8260	06/28/00	VFM	127-18-4	
Toluene	Not detected	mg/L	0.001	8260	06/28/00	VFM	108-88-3	
1,1,1-Trichloroethane	Not detected	mg/L	0.001	8260	06/28/00	VFM	71-55-6	
1,1,2-Trichloroethane	Not detected	mg/L	0.001	8260	06/28/00	VFM	79-00-5	
Trichloroethene	Not detected	mg/L	0.001	8260	06/28/00	VFM	79-01-6	
1,2,4-Trimethylbenzene	Not detected	mg/L	0.001	8260	06/28/00	VFM	95-63-6	
1,3,5-Trimethylbenzene	Not detected	mg/L	0.001	8260	06/28/00	VFM	108-67-8	
Vinyl chloride	Not detected	mg/L	0.001	8260	06/28/00	VFM	75-01-4	
o-Xylene	Not detected	mg/L	0.001	8260	06/28/00	VFM	95-47-6	
p,m-Xylene	Not detected	mg/L	0.001	8260	06/28/00	VFM	106-42-3/108-38-3	



Analytical Laboratory Report

Lab Sample ID: S02301.02 (continued)

Sample Tag: TB

Analysis	Results	Units	MDL	Method	Date Run	Analyst	CAS #	Flags
Organics (continued)								
Volatile Organics (continued)								
Acetone	Not detected	mg/L	0.05	8260	06/28/00	VFM	67-64-1	
2-Butanone (MEK)	Not detected	mg/L	0.05	8260	06/28/00	VFM	78-93-3	
Carbon disulfide	Not detected	mg/L	0.05	8260	06/28/00	VFM	75-15-0	
2-Hexanone	Not detected	mg/L	0.05	8260	06/28/00	VFM	591-78-6	
4-Methyl-2-pentanone (MIBK)	Not detected	mg/L	0.05	8260	06/28/00	VFM	108-10-1	



Environmental Consulting Laboratories, Inc.

One East Complex 1451 East Lansing Drive, Suite 222 East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-6333

QC Report

Report Date: July 11, 2000

FECL #(s): 0230101-0230102

Client: Roy F. Weston, Inc.

Project #: 01138-079-003 GM/Weston, Inc.

P.O. #: Verbal

Date: 07-11-00

Here is the QC report that corresponds to the above referenced analytical report. If you have any further questions concerning this data, please do not hesitate to call me at 517-332-0167.

Sincerely,

A handwritten signature in black ink, appearing to read 'Maya Murshak', is written over a horizontal line.

Maya Murshak
QA Officer

Form 1: GC/MS injection - Volatile Organics

GC Column....: VOCOL/L:60m/D:0.53mm
 Instrument ID: vol.01.Phyrexia

Analytical Batch: 000626al.1
 Heated Purge....: Yes

Filename	Run Time	Sample Comments	Mat.	QC Sample Type
spcc5.d	06/28 11:29 AM	spcc/ccc	WW	SPCC
lcs-w2.d	06/28 12:02 PM	blankms	WW	MS/D
0232101m.d	06/28 12:35 PM	boc \$btm826w	WW	MS/D
blk-w2.d	06/28 01:42 PM	blank	WW	Blk
0232101.d	06/28 02:15 PM	boc \$btm826w	WW	
0232101d.d	06/28 02:49 PM	boc \$btm826w	WW	Dup
0232102.d	06/28 03:22 PM	boc \$btm826w	WW	
0232103.d	06/28 03:56 PM	boc \$btm826w	WW	
0227104r.d	06/28 04:29 PM	sea \$btx826w	WW	
0227103r.d	06/28 05:02 PM	sea \$btx826w 100	WW	
0230101.d	06/28 05:36 PM	wes \$8260w	WW	
0230102.d	06/28 06:09 PM	wes \$8260w	WW	
0241601.d	06/28 06:43 PM	bocclark \$btm826w	WW	
0241602.d	06/28 07:16 PM	bocclark \$btm826w	WW	
0241603.d	06/28 07:50 PM	bocclark \$btm826w	WW	
0241801.d	06/28 08:23 PM	emcon \$tclpvol 50	WW	
0238201.d	06/28 08:56 PM	gm-smi \$8260 5g	SO	
0235602.d	06/28 09:30 PM	gm-smi \$tclpvol 1	WW	
0235602r.d	06/28 10:25 PM	gm-smi \$tclpvol 50	WW	

Outlier Summary

Surrogate Standard Outliers (Form 2): 0
 Duplicate/MSD Outliers (Form 3a).....: 0
 Matrix Spike Outliers (Form 3b).....: 0
 BFB/DFTPP Outliers (Form 5).....: 0
 SPCC Outliers (Form 7a).....: 0
 CCC Outliers (Form 7b).....: 0
 ISD Outliers (Form 8).....: 0

Matrix Summary

Water Samples....: 13 Soil Samples....: 1
 Water Duplicates: 1 Soil Duplicates.: 0
 Water Spikes....: 2 Soil Spikes.....: 0
 Water Blanks....: 1 Soil Blanks.....: 0

Batch Comments

[no comments]

Form 2: Surrogate Standard Recoveries/System Monitoring Compounds

GC Column....: VOCOL/L:60m/D:0.53mm
 Instrument ID: vol.01.Phyrexia

Analytical Batch: 000626al.1
 Heated Purge....: Yes

Filename	SSD Compound	Concentration		%Rec.	LCL/UCL	Matrix
		Found	Spiked			
spcc5.d	4-Bromofluorobenzene	43.2	50.0	n/a	86.1/120.5	WW
	1,2-Dichloroethane-D4	51.5	50.0	n/a	73.4/124.2	
	Toluene-D8	46.7	50.0	n/a	86.0/116.4	
lcs-w2.d	4-Bromofluorobenzene	43.1	50.0	86.2	86.1/120.5	WW
	1,2-Dichloroethane-D4	50.7	50.0	101.3	73.4/124.2	
	Toluene-D8	46.3	50.0	92.5	86.0/116.4	
0232101m.d	4-Bromofluorobenzene	46.8	50.0	93.5	86.1/120.5	WW
	1,2-Dichloroethane-D4	49.3	50.0	98.6	73.4/124.2	
	Toluene-D8	45.8	50.0	91.5	86.0/116.4	
blk-w2.d	4-Bromofluorobenzene	44.0	50.0	88.1	86.1/120.5	WW
	1,2-Dichloroethane-D4	50.1	50.0	100.2	73.4/124.2	
	Toluene-D8	45.8	50.0	91.7	86.0/116.4	
0232101.d	4-Bromofluorobenzene	44.0	50.0	87.9	86.1/120.5	WW
	1,2-Dichloroethane-D4	48.0	50.0	95.9	73.4/124.2	
	Toluene-D8	46.4	50.0	92.8	86.0/116.4	
0232101d.d	4-Bromofluorobenzene	43.8	50.0	87.6	86.1/120.5	WW
	1,2-Dichloroethane-D4	49.2	50.0	98.4	73.4/124.2	
	Toluene-D8	44.9	50.0	89.7	86.0/116.4	
0232102.d	4-Bromofluorobenzene	44.2	50.0	88.3	86.1/120.5	WW
	1,2-Dichloroethane-D4	51.2	50.0	102.3	73.4/124.2	
	Toluene-D8	45.3	50.0	90.5	86.0/116.4	
0232103.d	4-Bromofluorobenzene	44.3	50.0	88.6	86.1/120.5	WW
	1,2-Dichloroethane-D4	50.6	50.0	101.1	73.4/124.2	
	Toluene-D8	46.4	50.0	92.7	86.0/116.4	
0227104r.d	4-Bromofluorobenzene	43.3	50.0	86.7	86.1/120.5	WW
	1,2-Dichloroethane-D4	49.5	50.0	98.9	73.4/124.2	
	Toluene-D8	44.3	50.0	88.6	86.0/116.4	
0227103r.d	4-Bromofluorobenzene	44.3	50.0	88.5	86.1/120.5	WW
	1,2-Dichloroethane-D4	49.6	50.0	99.3	73.4/124.2	
	Toluene-D8	45.5	50.0	91.0	86.0/116.4	
0230101.d	4-Bromofluorobenzene	44.5	50.0	88.9	86.1/120.5	WW
	1,2-Dichloroethane-D4	49.5	50.0	99.1	73.4/124.2	
	Toluene-D8	45.1	50.0	90.1	86.0/116.4	
0230102.d	4-Bromofluorobenzene	45.1	50.0	90.1	86.1/120.5	WW
	1,2-Dichloroethane-D4	51.9	50.0	103.7	73.4/124.2	
	Toluene-D8	45.9	50.0	91.9	86.0/116.4	
0241601.d	4-Bromofluorobenzene	45.2	50.0	90.4	86.1/120.5	WW
	1,2-Dichloroethane-D4	51.1	50.0	102.2	73.4/124.2	
	Toluene-D8	44.9	50.0	89.7	86.0/116.4	
0241602.d	4-Bromofluorobenzene	44.3	50.0	88.6	86.1/120.5	WW
	1,2-Dichloroethane-D4	51.7	50.0	103.3	73.4/124.2	
	Toluene-D8	45.8	50.0	91.7	86.0/116.4	
0241603.d	4-Bromofluorobenzene	45.1	50.0	90.3	86.1/120.5	WW
	1,2-Dichloroethane-D4	51.3	50.0	102.5	73.4/124.2	
	Toluene-D8	45.8	50.0	91.5	86.0/116.4	
0241801.d	4-Bromofluorobenzene	44.1	50.0	88.3	86.1/120.5	WW
	1,2-Dichloroethane-D4	52.3	50.0	104.6	73.4/124.2	
	Toluene-D8	46.2	50.0	92.4	86.0/116.4	

Form 2: Surrogate Standard Recoveries/System Monitoring Compounds

GC Column.....: VOCOL/L:60m/D:0.53mm
 Instrument ID: vol.01.Phyrexia

Analytical Batch: 000626a1.1
 Heated Purge.....: Yes

Filename	SSD Compound	Concentration		%Rec.	LCL/UCL	Matrix
		Found	Spiked			
0238201.d	4-Bromofluorobenzene	43.3/	50.0	86.6	72.4/121.0	SO
	1,2-Dichloroethane-D4	53.3/	50.0	106.6	68.3/127.0	
	Toluene-D8	44.3/	50.0	88.7	81.0/117.0	
0235602.d	4-Bromofluorobenzene	45.9/	50.0	91.7	86.1/120.5	WW
	1,2-Dichloroethane-D4	53.5/	50.0	107.0	73.4/124.2	
	Toluene-D8	45.4/	50.0	90.8	86.0/116.4	
0235602r.d	4-Bromofluorobenzene	45.2/	50.0	90.5	86.1/120.5	WW
	1,2-Dichloroethane-D4	49.8/	50.0	99.6	73.4/124.2	
	Toluene-D8	44.7/	50.0	89.3	86.0/116.4	

Form 3a: Duplicate/Matrix Spike Duplicate Summary

GC Column.....: VOCOL/L:60m/D:0.53mm
Instrument ID: vol.01.Phyrexia

Analytical Batch: 000626a1.1
Heated Purge.....: Yes

<i>File Name</i>	<i>Sample Name</i>	<i>Target Compound</i>	<i>Dup/Samp Conc.</i>	<i>%RPD</i>	<i>Matrix</i>
0232101d.d	0232101.d	[end of compound list]			WW

Form 3b: Matrix Spike Summary

GC Column....: VOCOL/L:60m/D:0.53mm
 Instrument ID: vol.01.Phyrexia

Analytical Batch: 000626al.1
 Heated Purge....: Yes

File Name	Sample Name	Target Compound	MS/Samp	Conc.	%Rec	LCL/UCL	Mat.
lcs-w2.d	blk-w2.d	1,1-Dichloroethene	24.42/	0.00	97.7	71.0/129.0	WW
		Benzene	22.32/	0.00	89.3	71.0/129.0	
		Chlorobenzene	21.92/	0.00	87.7	71.0/129.0	
		Toluene	22.71/	0.00	90.8	71.0/129.0	
		Trichloroethene	23.84/	0.00	95.4	71.0/129.0	
0232101m.d	0232101.d	1,1-Dichloroethene	24.58/	0.00	98.3	71.0/129.0	WW
		Benzene	21.69/	0.00	86.8	71.0/129.0	
		Chlorobenzene	21.13/	0.00	84.5	71.0/129.0	
		Toluene	21.44/	0.00	85.8	71.0/129.0	
		Trichloroethene	23.27/	0.00	93.1	71.0/129.0	

Form 4: Method Blank Summary

GC Column....: VOCOL/L:60m/D:0.53mm
Instrument ID: vol.01.Phyrexia

Analytical Batch: 000626a1.1
Heated Purge....: Yes

<i>Filename</i>	<i>Run Time</i>	<i>Target Compound</i>	<i>Conc.</i>	<i>Matrix</i>
blk-w2.d	06/28 01:42 PM	[end of compound list]	0.00	WW

Form 7a: System Performance Compounds Check

GC Column.....: VOCOL/L:60m/D:0.53mm
Instrument ID: vol.01.Phyrexia

Analytical Batch: 000626al.1
Heated Purge.....: Yes

<i>Filename</i>	<i>Run Time</i>	<i>SPCC Compound</i>	<i>SPCC RF</i>	<i>RF LCL</i>
spcc5.d	06/28 11:29 AM	1,1-Dichloroethene	0.605	0.10
		Bromoform	1.028	0.30
		Chlorobenzene	1.331	0.30
		Chloromethane	0.234	0.10

Form 7b: Calibration Check Compounds

GC Column....: VOCOL/L:60m/D:0.53mm
Instrument ID: vol.01.Phyrexia

Analytical Batch: 000626al.1
Heated Purge....: Yes

Filename	Run Time	CCC Compound	CCC Conc.	CCC %D/UCL
spcc5.d	06/28 11:29 AM	Vinyl Chloride	22.8/ 25.0	8.8/ 20.0
		1,1-Dichloroethene	24.0/ 25.0	4.2/ 20.0
		Chloroform	24.6/ 25.0	1.5/ 20.0
		1,2-Dichloropropane	22.6/ 25.0	9.8/ 20.0
		Toluene	22.8/ 25.0	9.0/ 20.0
		Ethylbenzene	22.4/ 25.0	10.6/ 20.0

Form 8: Internal Standard and Retention Time Summary

GC Column....: VOCOL/L:60m/D:0.53mm
 Instrument ID: vol.01.Phyrexia

Analytical Batch: 000626al.1
 Heated Purge....: Yes

Filename	Run Time	ISD Compound	Area/RT	Ratio/Diff.
spcc5.d	06/28 11:29 AM	Pentafluorobenzene	4167308/ 8.17	1.000/ 0.00
		1,4-Difluorobenzene	3444138/ 9.59	1.000/ 0.00
		Chlorobenzene-D5	2287372/14.13	1.000/ 0.00
		1,4-Dichlorobenzene-D4	2241152/17.98	1.000/ 0.00
lcs-w2.d	06/28 12:02 PM	Pentafluorobenzene	4283236/ 8.16	1.028/-0.01
		1,4-Difluorobenzene	3652183/ 9.59	1.060/ 0.00
		Chlorobenzene-D5	2392311/14.12	1.046/-0.01
		1,4-Dichlorobenzene-D4	2337499/17.98	1.043/ 0.00
0232101m.d	06/28 12:35 PM	Pentafluorobenzene	3995358/ 8.17	0.959/ 0.00
		1,4-Difluorobenzene	3355739/ 9.59	0.974/ 0.00
		Chlorobenzene-D5	2082433/14.13	0.910/ 0.00
		1,4-Dichlorobenzene-D4	2295377/17.98	1.024/ 0.00
blk-w2.d	06/28 01:42 PM	Pentafluorobenzene	4374897/ 8.18	1.050/ 0.01
		1,4-Difluorobenzene	3766801/ 9.59	1.094/ 0.00
		Chlorobenzene-D5	2359907/14.14	1.032/ 0.01
		1,4-Dichlorobenzene-D4	2348821/17.99	1.048/ 0.01
0232101.d	06/28 02:15 PM	Pentafluorobenzene	4371811/ 8.18	1.049/ 0.01
		1,4-Difluorobenzene	3704808/ 9.60	1.076/ 0.01
		Chlorobenzene-D5	2313151/14.14	1.011/ 0.01
		1,4-Dichlorobenzene-D4	2300121/17.99	1.026/ 0.01
0232101d.d	06/28 02:49 PM	Pentafluorobenzene	4318548/ 8.18	1.036/ 0.01
		1,4-Difluorobenzene	3730101/ 9.59	1.083/ 0.00
		Chlorobenzene-D5	2329536/14.13	1.018/ 0.00
		1,4-Dichlorobenzene-D4	2251907/17.99	1.005/ 0.01
0232102.d	06/28 03:22 PM	Pentafluorobenzene	4200696/ 8.17	1.008/ 0.00
		1,4-Difluorobenzene	3625162/ 9.60	1.053/ 0.01
		Chlorobenzene-D5	2254456/14.13	0.986/ 0.00
		1,4-Dichlorobenzene-D4	2269602/17.97	1.013/-0.01
0232103.d	06/28 03:56 PM	Pentafluorobenzene	4296844/ 8.17	1.031/ 0.00
		1,4-Difluorobenzene	3603830/ 9.59	1.046/ 0.00
		Chlorobenzene-D5	2301808/14.14	1.006/ 0.01
		1,4-Dichlorobenzene-D4	2293174/17.99	1.023/ 0.01
0227104r.d	06/28 04:29 PM	Pentafluorobenzene	4260016/ 8.17	1.022/ 0.00
		1,4-Difluorobenzene	3685930/ 9.60	1.070/ 0.01
		Chlorobenzene-D5	2282361/14.14	0.998/ 0.01
		1,4-Dichlorobenzene-D4	2166956/18.00	0.967/ 0.02
0227103r.d	06/28 05:02 PM	Pentafluorobenzene	4222421/ 8.18	1.013/ 0.01
		1,4-Difluorobenzene	3563134/ 9.60	1.035/ 0.01
		Chlorobenzene-D5	2240142/14.14	0.979/ 0.01
		1,4-Dichlorobenzene-D4	2206713/17.98	0.985/ 0.00
0230101.d	06/28 05:36 PM	Pentafluorobenzene	3859938/ 8.17	0.926/ 0.00
		1,4-Difluorobenzene	3236258/ 9.58	0.940/-0.01
		Chlorobenzene-D5	2025710/14.13	0.886/ 0.00
		1,4-Dichlorobenzene-D4	1974967/17.99	0.881/ 0.01
0230102.d	06/28 06:09 PM	Pentafluorobenzene	4081299/ 8.17	0.979/ 0.00
		1,4-Difluorobenzene	3417465/ 9.60	0.992/ 0.01
		Chlorobenzene-D5	2149308/14.14	0.940/ 0.01
		1,4-Dichlorobenzene-D4	2155216/17.99	0.962/ 0.01
0241601.d	06/28 06:43 PM	Pentafluorobenzene	4080745/ 8.17	0.979/ 0.00
		1,4-Difluorobenzene	3451436/ 9.61	1.002/ 0.02
		Chlorobenzene-D5	2152948/14.14	0.941/ 0.01
		1,4-Dichlorobenzene-D4	2159766/17.99	0.964/ 0.01
0241602.d	06/28 07:16 PM	Pentafluorobenzene	3998569/ 8.19	0.960/ 0.02
		1,4-Difluorobenzene	3328266/ 9.59	0.966/ 0.00
		Chlorobenzene-D5	2130189/14.15	0.931/ 0.02
		1,4-Dichlorobenzene-D4	2069109/17.99	0.923/ 0.01

Form 8: Internal Standard a and Retention Time Summary

GC Column....: VOCOL/L:60m/D:0.53mm
 Instrument ID: vol.01.Phyrexia

Analytical Batch: 000626a1.1
 Heated Purge....: Yes

Filename	Run Time	ISD Compound	Area/RT	Ratio/Diff.
0241603.d	06/28 07:50 PM	Pentafluorobenzene	4078822/ 8.18	0.979/ 0.01
		1,4-Difluorobenzene	3353150/ 9.61	0.974/ 0.02
		Chlorobenzene-D5	2116479/14.15	0.925/ 0.02
		1,4-Dichlorobenzene-D4	2033261/18.00	0.907/ 0.02
0241801.d	06/28 08:23 PM	Pentafluorobenzene	4071595/ 8.18	0.977/ 0.01
		1,4-Difluorobenzene	3445548/ 9.60	1.000/ 0.01
		Chlorobenzene-D5	2157630/14.15	0.943/ 0.02
		1,4-Dichlorobenzene-D4	2119022/18.00	0.946/ 0.02
0238201.d	06/28 08:56 PM	Pentafluorobenzene	3919471/ 8.18	0.941/ 0.01
		1,4-Difluorobenzene	3361835/ 9.60	0.976/ 0.01
		Chlorobenzene-D5	2084352/14.15	0.911/ 0.02
		1,4-Dichlorobenzene-D4	1879996/17.99	0.839/ 0.01
0235602.d	06/28 09:30 PM	Pentafluorobenzene	3532103/ 8.17	0.848/ 0.00
		1,4-Difluorobenzene	2956591/ 9.60	0.858/ 0.01
		Chlorobenzene-D5	1916808/14.14	0.838/ 0.01
		1,4-Dichlorobenzene-D4	1926925/18.00	0.860/ 0.02
0235602r.d	06/28 10:25 PM	Pentafluorobenzene	4126482/ 8.19	0.990/ 0.02
		1,4-Difluorobenzene	3390675/ 9.61	0.984/ 0.02
		Chlorobenzene-D5	2163959/14.14	0.946/ 0.01
		1,4-Dichlorobenzene-D4	2241557/18.00	1.000/ 0.02

KEY:

[Area/RT]: Absolute area (counts) and absolute retention time (minutes) of internal standard
 [Ratio/Diff]: Ratio of internal standard areas and difference between internal standard retention times (minutes)

CONTROL LIMITS:

Area UCL/LCL = 50% to 200% of internal standard area
 RT UCL/LCL = +/- 0.5 minutes of internal standard RT



Fire & Environmental Consulting Laboratories, Inc.

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Indianapolis (317) 577-8087

INVOICE TO

NAME Babusukumar
 ADDRESS 3 Hawthorn Parkway Suite 400
 CITY Vernon Hills STATE IL ZIP CODE 60061
 P.O. NO. _____ PHONE NO. 847-918-4000 FAX NO. 847-918-4055

CHAIN OF CUSTODY RECORD

REPORT TO

NAME _____
 ADDRESS _____
 CITY _____ STATE _____ ZIP CODE _____
 PHONE NO. _____ FAX NO. _____

PROJECT NO. 01138-079-003 CLIENT GM/Weston, Inc.
 SAMPLER (SIGNATURE) David Dryburgh SAMPLER, PLEASE PRINT NAME David Dryburgh
 AFFILIATION R.F. Weston, Inc.

PRESERVATIVE CODE E
 REFRIGERATE (Y/N) Y SAMPLE TYPE
 GW WW SW SOIL
 SLUDGE OTHER _____
 BOTTLE TYPE _____ CODE: A = ↑
 _____ B = ↓
 _____ C = H₂SO₄
 _____ D = NaOH
 _____ E = HCL
 _____ F = _____

FEC LAB. NO.	SAMPLE COLLECTION YEAR:		SAMPLE TAG IDENTIFICATION-DESCRIPTION	TOTAL NO. CONTAINERS
	DATE	TIME		
<u>2301.01</u>	<u>6/16/00</u>	<u>1500</u>	<u>MW-11s</u>	<u>2</u>
<u>02</u>	<u>-</u>	<u>-</u>	<u>TB</u>	<u>1</u>

ANALYSES									
✓									<u>VOC</u>
✓									<u>VOC</u>

RELINQUISHED BY: David Dryburgh DATE 6/16/00 TIME _____
 RECEIVED BY: [Signature] DATE 6/16/00 TIME 4:10 pm
 RELINQUISHED BY: _____ DATE _____ TIME _____
 RECEIVED BY: _____ DATE _____ TIME _____

RELINQUISHED BY: _____ DATE _____ TIME _____
 RECEIVED AT FECL BY: [Signature] DATE 6/16/00 TIME 7:10
 SEAL NO. _____ SEAL INTACT YES NO INITIALS _____ NOTES: TEMP. ON ARRIVAL _____
 SEAL NO. _____ SEAL INTACT YES NO INITIALS _____

Data File : F:\GCMS.DAT\PHYREXIA.LFT\DATA\000626AL\SPCC5.D Vial: 1
Acq On : 28 Jun 100 11:29 am Operator:
Sample : spcc/ccc Inst : 5970 - In
Misc : W/1 Multiplr: 1.00

Method : F:\GCMS.DAT\PHYREXIA.LFT\METHODS\FL000616.M
Title : Volatile Organics, SW-846 # 8260

Scan Number 2037

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.6	83513	PASS
75	95	30	60	57.4	187585	PASS
95	95	100	100	100.0	326722	PASS
96	95	5	9	7.1	23343	PASS
173	174	0	2	0.2	410	PASS
174	95	50	200	72.8	237819	PASS
175	174	5	9	7.4	17634	PASS
176	174	95	101	98.5	234364	PASS
177	176	5	9	7.1	16652	PASS

SPCC5.D FL000616.M

Tue Jul 11 12:59:09 2000